



## Rabbit anti NFkBp65(PairedT254) Polyclonal Antibody

Alternative Name(s): nuclear factor kappa B subunit p65; NFkB

### Order Information

- **Description:** NFkBp65(PairedT254)
- **Catalogue:** 620-620
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide derived from epitope –FRTPP- with the Non-phosphorylation site Thr254 of human NF- $\kappa$ B p65 protein. This sequence is identical to human, mouse and rat.

### **BACKGROUND**

NFkB is a heterodimer that consists of a 50 kDa DNA binding subunit (p50/NFkB1) and a 65 kDa transactivation subunit (p65/RelA). Both of these subunits exhibit sequence homology to the proto-oncogene c-Rel. The p50 has an isoform called p49/p52, and both proteins are derived from the amino-terminal of precursor protein p105 and p100. The p50/p65 heterodimer remains in the cytosol in an inactive form as a complex with its inhibitor, I $\kappa$ B. Upon stimulation of cells by a wide variety of stimuli such as lipopolysaccharide (LPS), pro-inflammatory cytokines (IL-1 & TNF, etc.), and viral infection, I $\kappa$ B is phosphorylated and degraded by proteasome. The active NFkB heterodimer is translocated into the nucleus and induces gene expression. The inhibition of p53 activity is dependent upon phosphorylation of p65 (RelA) at S536 by the upstream kinase IKK beta .

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes NFkB p65 with the Non-phosphorylation site Thr254. It does not cross-react with phosphospecific peptide.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1  $\mu$ g/ml
- ELISA: 0.01-0.1  $\mu$ g/ml
- Immunoprecipitation: 2-5  $\mu$ g/ml
- IHC: 2-10  $\mu$ g/ml
- Flow cytometry: Not tested
- Molecular Weight: 65.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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**DATA ATTACHMENTS**



Western Blot: The whole tissue lysate derived from mouse brain was separated in 10% SDS-PAGE, transferred onto NC membrane, and immunoblotted by Rabbit anti – NFkB p65 (PairedT254) (Cat#620-620) antibody at 1:500 . An immunoreactive band around ~65 kDa is observed.

**REFERENCES**

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